



IN THE CLAIMS

The listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

 (Currently Amended) A worktable device for a semiconductor process, comprising:

an electrically conductive a worktable having a main surface for supporting a target substrate and a sub-surface disposed around said main surface;

a cooling mechanism disposed in said worktable and configured to supply cold to the main surface and the sub-surface;

a focus ring placed on the sub-surface and configured to surround the target substrate on the main surface, said focus ring consisting essentially of a <u>an electrically</u> conductive material;

a heat transfer medium interposed between the sub-surface and said focus ring, said heat transfer medium being so disposed so as to improve thermal conductivity between the sub-surface and said focus ring to be higher than in a case with no thermal transfer medium, said heat transfer medium consisting essentially of a an electrically conductive and heat-resistant elastic member selected from the group consisting of conductive silicon rubber and conductive fluororubber; and

a clamp configured to press said focus ring against the sub-surface,

wherein said cooling mechanism maintains said target substrate and the focus ring at substantially the same temperature.

- 2. (Canceled)
- 3. (Canceled)

- 4. (Previously Amended) The device according to claim 1, wherein said heat transfer medium is adhered to the sub-surface with a heat transfer adhesive.
- 5. (Previously Amended) The device according to claim 21, wherein said heat transfer medium consists essentially of a heat transfer medium gas, and said apparatus further comprises a gas passage, formed in said worktable, in order to supply the heat transfer medium gas between the sub-surface and said focus ring.
- 6. (Previously Amended) The device according to claim 5, wherein said heat transfer medium consists essentially of an inert gas or a gas containing part of a composition of a process gas to be supplied around said worktable.
 - 7. (Canceled)
 - 8. (Canceled)
- 9. (Currently Amended) The device according to claim 1, comprising: wherein said clamp comprises a clamp frame having a contact portion which comes from above and fits with a thin portion of said focus ring formed on its outer side into contact with said focus ring from above, and an extending portion extending downward from the contact portion along a side portion of said worktable.
 - 10. (Canceled)
 - 11. (Canceled)
- 12. (Previously Amended) A worktable device for a semiconductor process, comprising:
- a worktable having a main surface for supporting a target substrate and a sub-surface disposed around said main surface;
- a cooling mechanism disposed in said worktable and configured to supply cold to the main surface and the sub-surface;

a focus ring placed on the sub-surface and configured to surround the target substrate on the main surface;

a heat transfer medium interposed between the sub-surface and said focus ring, said heat transfer medium being so disposed as to improve thermal conductivity between the sub-surface and said focus ring to be higher than in a case with no thermal transfer medium;

a clamp configured to process said focus ring against the sub-surface;

wherein said clamp comprises a clamp frame having a contact portion which comes into contact with said focus ring from above, and an extending portion extending downward from the contact portion along a side portion of said worktable, and

an outer cover substantially made of heat-resistant synthetic resin and configured to cover said clamp frame, and

wherein said cooling mechanism maintains said target substrate and the focus ring at substantially the same temperature.

- 13. (Canceled)
- 14. (Currently Amended) A plasma processing apparatus for a semiconductor process, comprising:
 - a hermetic process chamber;
 - a supply system configured to supply a process gas into said process chamber; an exhaust system configured to vacuum-evacuate an interior of said process chamber; an excitation mechanism configured to excite and plasmatize the process gas;

an electrically conductive a worktable disposed in said process chamber and having a main surface for supporting a target substrate and a sub-surface disposed around the main surface;

a cooling mechanism disposed in said worktable and configured to supply cold to the main surface and the sub-surface;

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a focus ring placed on the sub-surface and configured to surround the target substrate on the main surface, said focus ring consisting essentially of a conductive material;

a heat transfer medium interposed between the sub-surface and said focus ring, said heat transfer medium being disposed so as to improve thermal conductivity between the sub-surface and said focus ring to be higher than in a case with no thermal transfer medium, said heat transfer medium consisting essentially of a conductive material an electrically conductive and heat-resistant elastic member selected from the group consisting of conductive silicone rubber and conductive fluororubber; and

a clamp configured to press said focus ring against the sub-surface,

wherein said cooling mechanism maintains said target substrate and the focus ring at substantially the same temperature.

- 15. (Canceled)
- 16. (Canceled)
- 17. (Previously Amended) The apparatus according to claim 12, wherein said heat transfer medium consists essentially of a heat transfer medium gas, and said apparatus further comprises a gas passage, formed in said worktable, in order to supply the heat transfer medium gas between the sub-surface and the focus ring.
 - 18. (Canceled)
- 19. (Currently Amended) The device according to claim 14 comprising: wherein said clamp comprises a clamp frame having a contact portion which comes from above and fits with a thin portion of said focus ring formed on its outer side into contact with said focus ring from above, and an extending portion extending downward from the contact portion along a side portion of side worktable.
- 20. (Original) The apparatus according to claim 14, further comprising an electrostatic chuck disposed on the main surface and configured to fix the target substrate,



and a gas passage formed in said worktable and configured to supply a heat transfer medium gas between said electrostatic chuck and the target substrate.

21. (Previously Amended) A worktable device for a semiconductor process, comprising:

a worktable having a main surface for supporting a target substrate and a sub-surface disposed around said main surface;

a cooling mechanism disposed in said worktable and configured to supply cold to the main surface and the sub-surface;

a focus ring placed on the sub-surface and configured to surround the target substrate on the main surface;

a heat transfer medium interposed between the sub-surface and said focus ring, said heat transfer medium being so disposed as to improve thermal conductivity between the subsurface and said focus ring to be higher than in a case with no thermal transfer medium; and

a clamp configured to press said focus ring against the sub-surface,

wherein said cooling mechanism maintains said target substrate and the focus ring at substantially the same temperature; and

wherein said clamp comprises an outer cover consisting essentially of a heat-resistant synthetic resin.

- 22. (Canceled)
- 23. (Canceled)
- 24. (Canceled)
- 25. (Previously Added) The device according to claim 21, wherein said heat transfer medium consists essentially of the heat-resistance elastic member.
 - 26. (Previously Added) The device according to claim 21, wherein said heat transfer

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medium consists essentially of a heat transfer medium gas, and said apparatus further comprising a gas passage to supply the heat transfer medium gas between the sub-surface and said focus ring.

- 27. (Previously Added) The device according to claim 21, wherein said heat transfer medium consists essentially of an inert gas or a gas containing part of a composition of a process gas to be supplied around said worktable.
- 28. (Previously Added) The device according to claim 21, wherein said focus ring consists essentially of a conductive material.

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